

### Abstract

The present invention relates to methods of inhibiting the proliferation of a microbial population of a surface lesion of a human or animal, wherein the lesion is  
5 contacted with an antimicrobial composition comprising a pharmaceutically acceptable antibiotic, a pharmaceutically acceptable chelating agent and a pharmaceutically acceptable pH buffering agent. Another aspect of the present invention is a medical dressing for delivering an antimicrobial composition to a site of a skin injury or lesion of a mammal, comprising a support and an antimicrobial  
10 composition, wherein the antimicrobial composition is at least one antimicrobial agent and at least one chelating agent. The present invention also relates to methods for delivering an antibiotic to an injury to the skin of a human or animal and to kits for the preparation and use of an antimicrobial composition to inhibit a microbial infection of a skin injury or lesion of a human or animal.

15